

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A light emitting element comprising:
a pair of electrodes including a first electrode and a second electrode;
a first layer and a second layer between the first electrode and the second electrode; and
a light emitting layer between the pair of electrodes; and the first layer and the second layer,
~~a layer between the light emitting layer and at least one of the pair of electrodes,~~
wherein ~~the layer each of the first layer and the second layer~~ contains a composite of a conjugated molecule represented by a following general formula [1] and an oxide of a transition metal which belongs to any one of Groups 4 to 8 in the periodic table,

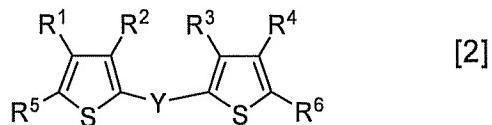


wherein the X is the same as or different from the Z,
wherein the X and the Z each represent a sulfur atom, an oxygen atom, a nitrogen atom to which hydrogen, an alkyl group, or aryl group is bonded, or a silicon atom to which hydrogen, alkyl group, or aryl group is bonded,
wherein the Y represents an arylene group, and
wherein the R¹ to R⁴ each represent a hydrogen atom, and the R⁵ and R⁶ each represent an aryl group.

2. (Currently Amended) A light emitting element comprising:

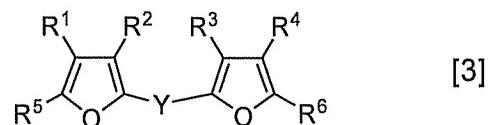
a pair of electrodes including a first electrode and a second electrode;

a first layer and a second layer between the first electrode and the second electrode; and
a light emitting layer between the pair of electrodes; and the first layer and the second layer,
~~a layer between the light emitting layer and at least one of the pair of electrodes,~~
wherein the layer each of the first layer and the second layer contains a composite of a conjugated molecule represented by a following general formula [2] and an oxide of a transition metal which belongs to any one of Groups 4 to 8 in the periodic table,



wherein the Y represents an arylene group, and
wherein the R¹ to R⁴ each represent a hydrogen atom, and the R⁵ and R⁶ each represent an aryl group.

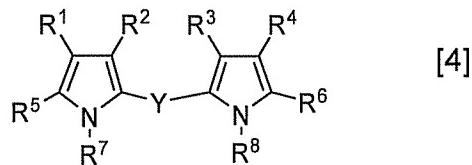
3. (Withdrawn / Currently Amended) A light emitting element comprising:
a pair of electrodes including a first electrode and a second electrode;
a first layer and a second layer between the first electrode and the second electrode; and
a light emitting layer between the pair of electrodes; and the first layer and the second layer,
~~a layer between the light emitting layer and at least one of the pair of electrodes,~~
wherein the layer each of the first layer and the second layer contains a composite of a conjugated molecule represented by a following general formula [3] and an oxide of a transition metal which belongs to any one of Groups 4 to 8 in the periodic table,



wherein the Y represents an arylene group, and

wherein the R¹ to R⁴ each represent a hydrogen atom, and the R⁵ and R⁶ each represent an aryl group.

4. (Withdrawn / Currently Amended) A light emitting element comprising:
a pair of electrodes including a first electrode and a second electrode;
a first layer and a second layer between the first electrode and the second electrode; and
a light emitting layer between the pair of electrodes; and the first layer and the second layer,
a layer between the light emitting layer and at least one of the pair of electrodes,
wherein the layer each of the first layer and the second layer contains a composite of a conjugated molecule represented by a following general formula [4] and an oxide of a transition metal which belongs to any one of Groups 4 to 8 in the periodic table,



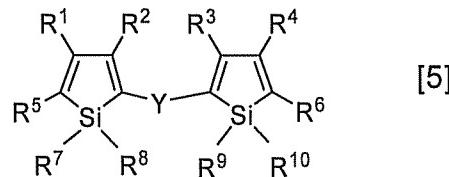
wherein the Y represents an arylene group,

wherein the R¹ to R⁴ each represent hydrogen, and the R⁵ and R⁶ each represent an aryl group,
and

wherein the R⁷ and the R⁸ each represent any of hydrogen, an alkyl group, and an aryl group.

5. (Withdrawn / Currently Amended) A light emitting element comprising:
a pair of electrodes including a first electrode and a second electrode;
a first layer and a second layer between the first electrode and the second electrode; and
a light emitting layer between the pair of electrodes; and the first layer and the second layer,
a layer between the light emitting layer and at least one of the pair of electrodes,

wherein the ~~layer each of the first layer and the second layer~~ contains a composite of a conjugated molecule represented by a following general formula [5] and an oxide of a transition metal which belongs to any one of Groups 4 to 8 in the periodic table,



wherein the Y represents an arylene group,

wherein the R¹ to R⁴ each represent hydrogen, and R⁴ and R⁵ each represent an aryl group,

and

wherein the R⁷ to R¹⁰ each represent any of hydrogen, an alkyl group, and an aryl group.

6. (Currently Amended) A light emitting element according to any one of claims 1 to 5, wherein the light emitting element emits light from the light emitting layer when a voltage is applied so that an electric potential of the first electrode is higher than that of the second electrode, ~~and wherein the layer is between the first electrode and the light emitting layer.~~

7-8. (Canceled)

9. (Previously Presented) A light emitting element according to any one of claims 1 to 5, wherein the oxide of the transition metal which belongs to any one of Groups 4 to 8 in the periodic table includes vanadium oxide, molybdenum oxide, rhenium oxide, tungsten oxide, ruthenium oxide, titanium oxide, chromium oxide, zirconium oxide, hafnium oxide, tantalum oxide, or niobium oxide.

10. (Original) A light emitting element according to any one of claims 1 to 5, wherein the Y in the formula of the conjugated molecule contains a bivalent aromatic hydrocarbon radical having a carbon number of 6 to 20, or a bivalent heteroaromatic ring radical having a carbon number of 4 to 30 including oxygen, nitrogen, sulfur or silicon.

11. (Original) A light emitting element according to any one of claims 1 to 5, wherein a cyclic structure is formed by the R¹ and the R² of the conjugated molecule, and a cyclic structure is formed by the R³ and the R⁴.

12. (Original) A light emitting element according to any one of claims 1 to 5, wherein the light emitting element is used as a pixel of an electronic apparatus.

13. (Original) A light emitting element according to claim 12, wherein the electronic apparatus is at least one selected from the group consisting of a personal computer, a telephone, and a television.

14. (Original) A light emitting element according to any one of claims 1 to 5, wherein the light emitting element is used as a light source.

15. (New) A light emitting element according to any one of claims 1 to 5, further comprising an electron generation layer in contact with the light emitting element.